

021904

04772 U.S. PTO

**NEW UTILITY PATENT APPLICATION  
TRANSMITTAL**

DOCKET NO.  
RPS920030131US1 (IRA-10-5791)

TOTAL PAGES IN THIS SUBMISSION  
3

22264 U.S. PTO  
10/782617

021904

**TO MAIL STOP PATENT APPLICATION  
COMMISSIONER FOR PATENTS**

**P.O. Box 1450**

**Alexandria, VA 22313-1450**

Transmitted herewith for filing under 35 USC 111(a) and 37 CFR 1.53(b) is a new utility patent application for an invention entitled:

**ACTIVE FLOW MANAGEMENT WITH HYSTERESIS**

invented by

JEFFREY P. BRADFORD  
GORDON T. DAVIS  
DONGMING HWANG  
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assigned to

**INTERNATIONAL BUSINESS MACHINES CORPORATION**  
Armonk, New York

**If a CONTINUATION APPLICATION, check appropriate box and supply the requisite information:**

☐ Continuation

☐ Divisional

☐ Continuation -in -part (CIP)

in prior application No.: \_\_\_\_\_

Enclosed are:

**Application Elements**

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having **28** pages and including the following:
  - a. ☒ Descriptive Title of the Invention
  - b. ☐ Cross References to Related Applications (*if applicable*)
  - c. ☐ Statement Regarding Federally-sponsored Research/Development (*if applicable*)
  - d. ☐ Reference to Microfiche Appendix (*if applicable*)
  - e. ☒ Background of the Invention
  - f. ☒ Brief Summary of the Invention
  - g. ☒ Brief Description of the Drawings (*if drawings filed*)
  - h. ☒ Detailed Description
  - i. ☒ Claim(s) as Classified Below
  - j. ☒ Abstract of the Disclosure
3. ☒ Drawing(s) (*when necessary as prescribed by 35 USC 113*)
  - a. ☒ Formal
  - b. ☐ InformalNumber of Sheets **9**

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4. ☒ Oath or Declaration (2 forms, 4 pages each, 8 pages total – fully executed)  
a. ☒ Newly executed (*original or copy*) ☐ Unexecuted  
b. ☐ Copy from a prior application (37 CFR 1.63(d)) (*for continuation/divisional application only*)  
c. ☒ With Power of Attorney ☐ Without Power of Attorney  
Application Elements (Continued)
5. ☐ Incorporation by Reference (*usable if Box 4b is checked*)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Computer Program in Microfiche (*Appendix*)
7. ☐ Nucleotide and/or Amino Acid Sequence Submission (*if applicable, all must be included*)  
a. ☐ Paper Copy  
b. ☐ Computer Readable Copy (*identical to computer copy*)  
c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☐ Assignment Papers (*cover sheet & document(s)*)  
***International Business Machines Corporation***
9. ☐ 37 CFR 3.73(B) Statement (*when there is an assignee*)
10. ☐ English Translation Document (*if applicable*)
11. ☒ Information Disclosure Statement/PTO-1449 ☒ Copies of IDS Citations (non-U.S. only)
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcards (2)
14. ☒ Certificate of Mailing  
☐ First Class ☒ Express Mail (*Specify Label No.:* EV385165765US)
15. ☒ Application Data Sheet
16. ☐ Additional Enclosures (*please identify below*):

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**FEE CALCULATION AND TRANSMITTAL**

**CLAIMS AS FILED**

1) For	2) Number Filed	3) Number Extra	Rate	Additional Fee
TOTAL CLAIMS (37 CFR 1.16(c))	18 - 20 =	- 0 -	x\$18.00	\$ .00
INDEPENDENT CLAIMS (37 CFR 1.16(c))	3 - 3 =	- 0 -	x \$86.00	\$ .00
First Pres. Of Multiple Dep. Claims	= 0			\$ 0.00
Basic Fee	= 0			\$ 770.00
			<b>TOTAL</b>	<b>\$ 770.00</b>

- ☐ A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 09-1990 as described below. A duplicate copy of this sheet is enclosed.
- ☒ Charge the amount of \$770.00 as filing fee.
- ☒ Credit any overpayment or any deficiency.
- ☒ Charge any additional filing fees required under 37 CFR 1.16 and 1.17.

Respectfully submitted,

Date: February 19, 2004

By: Joscelyn G. Cockburn  
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Enclosures

<b>CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)</b> Applicant(s): Bradford et al			<b>DOCKET NO.</b> RPS920030131US1 (IRA-10-5791)
Serial No. To be Assigned	Filing Date Filed Herewith	Examiner	Group Art Unit
<b>Invention: ACTIVE FLOW MANAGEMENT WITH HYSTERESIS</b>			
<p>I hereby certify that the following documents</p> <p style="margin-left: 40px;">New Utility Patent Application Transmittal</p> <p style="margin-left: 40px;">Application Data Sheet</p> <p style="margin-left: 40px;">Patent Application comprising <b>17</b> pages of specification, <b>10</b> pages of claims,  <b>1</b> page of Abstract and <b>9</b> sheets of formal drawings</p> <p style="margin-left: 40px;">2 Declaration and Power of Attorney forms for Patent Application – fully executed (8 pages total)</p> <p style="margin-left: 40px;">IDS Submission Statement with 1449 Form and copies of all required citations</p> <p style="margin-left: 40px;">Two (2) Acknowledgement post cards</p> <p>are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on <b><u>FEBRUARY 19, 2004.</u></b></p> <div style="text-align: right; margin-right: 100px;"> <p>_____  <b>Karen Orzechowski</b>          (Typed or Printed Name of Person Mailing Correspondence)</p> <p>_____  <i>Karen Orzechowski</i>          (Signature of Person Mailing Correspondence)</p> <p>_____  <b>EV385165765US</b>          ("Express Mail" Mailing Label Number)</p> </div>			